| Alternative Package 1 – Express Bus/HOV/Operational | | | | |
|---|-------|----------|-------------|---------------------|
| Item | Unit | Quantity | Unit Cost | Total Cost |
| 4.3 Expansion of Express Bus on Bay Bridge | | | | |
| Annual Express Bus Operating Cost | Hours | 256,100 | \$90 | \$23,049,000 |
| A. Operating Cost Subtotal | | | | \$23,049,000 |
| B. Contingency (30%) 4.3 TOTAL COST (A + B) | | | | \$6,914,700 |
| 4.3 TOTAL COST (A + B) | | | | \$29,963,700 |
| 5.0 BART Services Improvements | | | | |
| BART Annual Operating Costs (See Manuel Padron Memo) | LS | 1 | \$5,100,000 | \$5,100,000 |
| A. Operating Cost Subtotal | | | | \$5,100,000 |
| B. Contingency (30%) | | | | \$1,530,000 |
| 5.0 TOTAL COST (A + B) | | | | \$6,630,000 |
| 7.1 ITS Improvements | | | | |
| Annual ITS Operating Cost | LS | 1 | \$10,000 | \$10,000 |
| A. Operating Cost Subtotal | | | | \$10,000 |
| B. Contingency (30%) | | | | \$3,000 |
| 7.1 TOTAL COST (A + B) | | | | \$13,000 |
| 2.1.1 Westbound Grand Avenue On-Ramp – HOV Extension | | | | |
| New Lane - Annual Maintenance Cost | LM | 1 | \$10,000 | \$10,000 |
| A. Operating Cost Subtotal | | <u> </u> | ψ10,000 | \$10,000 |
| B. Contingency (30%) | | | | \$3,000 |
| 2.1.1 TOTAL COST (A + B) | | | | \$13,000 |
| | | | | Ţ.,,,,,,,,, |
| 2.1.2 Westbound I-580 Left-Side HOV Lane Extension | | | | |
| New Lane - Annual Maintenance Cost | LM | 0.6 | \$10,000 | \$6,000 |
| A. Operating Cost Subtotal | | | | \$6,000 |
| B. Contingency (30%) | | | | \$1,800 |
| 2.1.2 TOTAL COST (A + B) | | | | \$7,800 |
| 2.1.3 New Westbound Right Side HOV Structure Alongside I-580 | | | | |
| New Lane - Annual Maintenance Cost | LM | 1.6 | \$10,000 | \$16,000 |
| A. Operating Cost Subtotal | | | | \$16,000 |
| B. Contingency (30%) | | | | \$4,800 |
| 2.1.3 TOTAL COST (A + B) | | | | \$20,800 |
| 2.1.4 Westbound I-80 HOV Approach Improvement | | | | |
| New Lane - Annual Maintenance Cost | LM | 0.3 | \$10,000 | \$3,000 |
| A. Operating Cost Subtotal | | | + -, | \$3,000 |
| B. Contingency (30%) | | | | \$900 |
| 2.1.4 TOTAL COST (A + B) | | | | \$3,900 |
| O.A.C.I.OO.W.D. Augusta al. to Maritima/Harranka off Danie | | | | |
| 2.1.6 I-80 WB Approach to Maritime/Horseshoe Off-Ramp New Lane - Annual Maintenance Cost | I M | 0.2 | \$10.000 | \$2,000 |
| A. Operating Cost Subtotal | LM | 0.2 | \$10,000 | \$2,000 |
| B. Contingency (30%) | | | | \$600 |
| 2.1.6 TOTAL COST (A + B) | | | | \$2,600 |
| | | | | , , |
| 2.1.7 I-880 NB HOV Approach Extension to Market/Adeline | | | 040.000 | |
| New Lane - Annual Maintenance Cost | LM | 2.7 | \$10,000 | \$27,000 |
| A. Operating Cost Subtotal | | | | \$27,000 \$8,100 |
| B. Contingency (30%) | | | | \$8,100 \$35,100 |
| 2.1.7 TOTAL COST (A + B) | | | | \$35,100 |
| 2.2.3 Close SR 92 HOV Gap Hesperian to I-880 | | | | |
| New Lane - Annual Maintenance Cost | LM | 1.5 | \$10,000 | \$15,000 |
| A. Operating Cost Subtotal | | | | \$15,000 |
| B. Contingency (30%) | | | | \$4,500 |
| 2.2.3 TOTAL COST (A + B) | | | | \$19,500 |

| Alternative Package | - Evnrace | Bus/HOV/On | arational Imi | provements - | Operating Cost |
|---------------------|-------------|------------|----------------|----------------|-----------------|
| Allemative Package | I — EXDIESS | | eranonai iiiii | Dioveillents - | Operaliilu Gost |

| Item | Unit | Quantity | Unit Cost | Total Cost |
|--|------------------|----------|-----------|--------------|
| 4.1 SMB – Express Bus Service with Park and Ride (Hesper | rian) and HOV Ra | mps | | |
| Annual Express Bus Operating Cost | Hours | 71,448 | \$90 | \$6,430,320 |
| Park and Ride Lot - Annual Maintenance Cost | LS | 1 | \$10,000 | \$10,000 |
| New Lane - Annual Maintenance Cost | LM | 1.3 | \$10,000 | \$13,000 |
| A. Operating Cost Subtotal | | | | \$6,453,320 |
| B. Contingency (30%) | | | | \$1,935,996 |
| 4.1 TOTAL COST (A + B) | | | | \$8,389,316 |
| 2.3.4 SR 84/I-880 HOV Flyovers | | | | |
| New Lane - Annual Maintenance Cost | LM | 1.3 | \$10,000 | \$13,000 |
| A. Operating Cost Subtotal | | | | \$13,000 |
| B. Contingency (30%) | | | | \$3,900 |
| 2.3.4 TOTAL COST (A + B) | | | | \$16,900 |
| 4.2 Dumbarton Express Bus Service with Park and Ride (No | ewark) and HOV F | Ramps | | |
| Annual Express Bus Operating Cost | Hours | 75,400 | \$90 | \$6,786,000 |
| Park and Ride Lot - Annual Maintenance Cost | LS | 1 | \$10,000 | \$10,000 |
| New Lane - Annual Maintenance Cost | LM | 1.3 | \$10,000 | \$13,000 |
| A. Operating Cost Subtotal | | | | \$6,809,000 |
| B. Contingency (30%) | | | | \$2,042,700 |
| 4.2 TOTAL COST (A + B) | | _ | | \$8,851,700 |
| TOTAL ALTERNATIVE 1 ANNUAL OPERATING COST | | | | \$53,967,316 |

Alternative Package 2 - Bay Bridge Corridor Rail - Operating Cost

| Item | Unit | Quantity | Unit Cost | Total Cost |
|---|-------------|----------|---------------|---------------|
| 3.4 San Francisco – Oakland BART | | | | |
| BART Operating Costs (See Manuel Padron Memo) | LS | 1 | \$102,800,000 | \$102,800,000 |
| A. Operating Cost Subtotal | | | | \$102,800,000 |
| B. Contingency (30%) | | | | \$30,840,000 |
| 3.4 TOTAL COST (A + B) | | | | \$133,640,000 |
| 3.7 San Francisco – Oakland Conventional/High Speed R | | | | |
| Maintenance of Trackage | TM | 10.8 | \$15,000 | \$162,000 |
| Operating and Maintenance Cost (Vehicles) | Train Miles | 274,560 | \$50 | \$13,728,000 |
| A. Operating Cost Subtotal | | | | \$13,890,000 |
| B. Contingency (30%) | | | | \$4,167,000 |
| 3.7 TOTAL COST (A + B) | | | | \$18,057,000 |
| TOTAL ALTERNATIVE 2 ANNUAL OPERATING COST | | | | \$151,697,000 |

| Alternative Package 3 – Hayward/San Mateo Cor | rridor Improvements - Operating Cost |
|---|--------------------------------------|
|---|--------------------------------------|

| Item | Unit | Quantity | Unit Cost | Total Cost |
|--|-------------|------------|-----------|-------------|
| 2.2.1 - Phase I - Install Reversible Lanes on High Bridge & Rest | ripe Causew | ay Section | | |
| Median Barrier Annual Operating Cost | LS | 1 | \$500,000 | \$500,000 |
| A. Operating Cost Subtotal | | | | \$500,000 |
| B. Contingency (30%) | | | | \$150,000 |
| 2.2.1 TOTAL COST - Phase I (A + B) | | | | \$650,000 |
| 2.2.1 – Phase II – Widen Causeway Bridge and High Bridge | | | | |
| Causeway Annual Maintenance | LM | 4.4 | \$100,000 | \$440,000 |
| High-Bridge Annual Maintenance | LM | 9.1 | \$100,000 | \$910,000 |
| A. Operating Cost Subtotal | | | · , | \$1,350,000 |
| B. Contingency (30%) | | | | \$405,000 |
| 2.2.1 TOTAL COST - Phase II (A + B) | | | | \$1,755,000 |
| 2.2.4 Improve I-880/SR 92 Interchange | | | | |
| New Lane - Annual Maintenance Cost | LM | 4 | \$10,000 | \$40,000 |
| A. Operating Cost Subtotal | | | • | \$40,000 |
| B. Contingency (30%) | | | | \$12,000 |
| 2.2.4 TOTAL COST (A + B) | | | | \$52,000 |
| 2.2.5 Widen I-880 between SR 238 and SR 92 | | | | |
| New Lane - Annual Maintenance Cost | LM | 7.6 | \$10,000 | \$76,000 |
| A. Operating Cost Subtotal | | | · · · | \$76,000 |
| B. Contingency (30%) | | | | \$22,800 |
| 2.2.5 TOTAL COST (A + B) | | | | \$98,800 |
| 2.2.6 Improve I-880/SR 238 Interchange | | | | |
| New Lane - Annual Maintenance Cost | LM | 1.3 | \$10,000 | \$13,000 |
| A. Operating Cost Subtotal | | | • | \$13,000 |
| B. Contingency (30%) | | | | \$3,900 |
| 2.2.6 TOTAL COST (A + B) | | | | \$16,900 |
| TOTAL ALTERNATIVE 3 ANNUAL OPERATING COST | | | | \$2,572,700 |
| TO THE ALTERNATIVE VARIABLE OF LIVATING COOT | | | | Ψ2,312,100 |

<u>Alternative Package 4 – New Mid-Bay Bridge - Operating Cost</u>

| Item | Unit | Quantity | Unit Cost | Total Cost |
|--|----------|------------|------------------|-------------------|
| 3.2 New Mid-Bay Bridge SR 238 to I-380 | | | | |
| Bridge Annual Maintenance Cost | LM | 98 | \$100,000 | \$9,800,000 |
| Toll Plaza Annual Operating Cost | Vehicles | 12,879,800 | \$0.265 | \$3,413,147 |
| Express Bus Operating Cost | Hours | 148,824 | \$90 | \$13,394,160 |
| Western Approach Roadway Annual Maintenance Cost | LM | 20 | \$10,000 | \$200,000 |
| Eastern Approach Roadway Annual Maintenance Cost | LM | 2 | \$10,000 | \$20,000 |
| I-238/I-880 Improvements Maintenance Cost | LM | 12 | \$10,000 | \$120,000 |
| A. Operating Cost Subtotal | | | | \$26,947,307 |
| B. Contingency (30%) | | | | \$8,084,192 |
| TOTAL ALTERNATIVE 4 ANNUAL OPERATING COST | | | | \$35,031,499 |

<u>Alternative Package 5 – Reconstruction of Dumbarton Rail Bridge - Operating Cost</u>

| Item | Unit | Quantity | Unit Cost | Total Cost | |
|--|-------------|----------|-----------|--------------|--|
| 3.6 Reconstruction of Dumbarton Rail Bridge with Commuter Rail Service | | | | | |
| Vehicle Maintenance and Operating Cost | Train Miles | 341,952 | \$50 | \$17,097,600 | |
| A. Operating Cost Subtotal | | | | \$17,097,600 | |
| B. Contingency (30%) | | | | \$5,129,280 | |
| C. Vehicle Operations Cost Subtotal (A + B) | | | | \$22,226,880 | |
| Costs from JPB Study | | | | | |
| Operating Cost (Swing Bridges)* | LS | 1 | \$229,000 | \$229,000 | |
| Operating Cost (Stations)* | LS | 1 | \$210,000 | \$210,000 | |
| Maintenance of Trackage* | LS | 1 | \$349,000 | \$349,000 | |
| D. JPB Study Subtotal | | | | \$788,000 | |
| | | | | | |
| TOTAL ALTERNATIVE 5 ANNUAL OPERATING COS | T (C + D) | | | \$23,014,880 | |

<u>Alternative Package 6 – Dumbarton Corridor Highway Improvements - Operating Cost</u>

| Item | Unit | Quantity | Unit Cost | Total Cost |
|--|------|----------|-----------|------------|
| 2.3.1 East Palo Alto/University Avenue Bypass – Phase I | | - | | |
| New Lane - Annual Maintenance | LM | 5 | \$10,000 | \$50,000 |
| A. Operating Cost Subtotal | | | | \$50,000 |
| B. Contingency (30%) | | | | \$15,000 |
| 2.3.1 TOTAL COST - Phase I (A + B) | | | | \$65,000 |
| 2.3.1 East Palo Alto/University Avenue Bypass – Phase II | | | | |
| New Lane (At-Grade) Annual Maintenance | LM | 2.7 | \$10,000 | \$27,000 |
| New Lane (Bridge/Tunnel) Annual Maintenance | LM | 2.7 | \$10,000 | \$27,000 |
| A. Operating Cost Subtotal | | | | \$54,000 |
| B. Contingency (30%) | | | | \$16,200 |
| 2.3.1 TOTAL COST - Phase II (A + B) | | | | \$70,200 |
| TOTAL ALTERNATIVE 6 ANNUAL OPERATING COST | | | | \$135,200 |